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# **Naval Mission Planning Systems Overview**

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# PMA-233 Responsibilities

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- Support fielded systems
- Maintain/Sustain fielded systems
- Upgrade/Improved fielded systems
- Develop follow-on systems
- Maintain government management and technical oversight expertise
- Maintain sufficient test and evaluation and field support facilities

**Support the  
Warfighter!**



# NavMPS Product Summary

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- **Fielded Systems/Applications**

- ✓ **TAMPS** - Used mainly for PGM planning and data loading
- ✓ **N-PFPS** - Fleet's choice for basic mission planning
- ✓ **CMDL** - Navigation data loading for 15 naval aircraft types
- ✓ **ATACS** - Automated conventional weaponeering for F/A-18
- ✓ **PMPT** - Paveway weapons planning for multi-platforms

- **Systems in Development**

- ✓ **JMPS** - Initially replacing TAMPS but eventually incorporating all NavMPS applications
- ✓ **NAWC** - Initially replacing ATACS and PMPT and eventually migrating to JMPS





# **NavMPS Major Accomplishments and Progress since MPUC 2002**

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- **TAMPS 6.2.1 Fleet released Jan 02 and fully deployed by Oct 02**
- **Released two TAMPS F/A-18 MPM upgrades**
- **NAWC Development completed in FY02 for F/A-18A-D's as Stand Alone PC/Windows Weaponneering Application**
- **ATACS Version 2.3 released to the F/A-18 community**
- **N-PFPS Version 3.2 Fielded with improved mapping functionality and enhanced 3-D mission preview capability**
- **CMDL Version 1.2 released to P-3 community for automated data loading of navigation and avionics OFP data**
- **JMPS Version One (JV1) Development completed**
- **JMPS Combat 1 (JC1) Beta 0.1 released**
- **Supported all CV/CVN work-ups and deployments with Shipriders**
- **Supported USMC expeditionary deployment with Tech Rep**
- **Supported C-130/KC-130 flight clearance for In-flight N-PFPS system to provide moving map capability**



# January 2002 NavMPS OAG Priorities

**Preamble endorsed NavMPS plan to develop a Joint Mission Planning System (JMPS) that will be collaborative, C4I integrated, intuitive, scalable and extensible, globally mission capable, and with integrated weapons planning and data loading for all platforms.**

## **Top 10 Operational Priorities:**

- 1. Develop an objective area analysis planning tool to include automated, comprehensive weaponeering components support for all platforms**
  - **Partially addressed by NAWC Standalone (F/A-18 only)**
  - **Plans to integrate NAWC into JMPS beginning in FY04/5.**
  - **OPNAV/NAVAIR committed to solving NAWC funding issue**
  - **Development of Sensor Prediction, Sensor Employment Planning, and Conventional Weapons Planning are scheduled to begin in FY04.**
  - **Need fleet help in defining and prioritizing requirements for these efforts.**



# January 2002 NavMPS OAG Priorities

## 2. Manage information technology programs, operating environments, and standardization for full support and rapid certification of all mission planning systems to address Defense Information Infrastructure/Common Operating Environment (DII-COE), Navy-Marine Corps Intranet (NMCI), and Information Technology for the 21<sup>st</sup> Century (IT-21) potential roadblocks and connectivity issues

- JMPS mandated by OSD to be DII-COE compliant
- DII-COE program in transition, many unknowns for the future
- For JMPS IOC, working to make software install easier
- Currently, N-PFPS is NMCI-certified and NMCI hardware compatible
- Currently, JMPS will not be NMCI hardware compatible due to DII-COE
- JMPS IPT is working to assess NMCI connectivity roadblocks at home field (SIPRNET access and intra-base LAN connectivity)
- NavMPS continuing to work with NMCI program to reduce conflicts in software, hardware, and connectivity



# January 2002 NavMPS OAG Priorities

- 3. Increase mission planning hardware acquisition to one MPS workstation per airframe**
  - Not in line with NavMPS ORD (currently less than 1 MPS per 4 a/c)
  - Completed fleet hardware requirements survey in Sep 02 to update the hardware requirements in the JMPS ORD
  - POM-04 barely supports minimum ORD h/w levels
  - H/w levels expected to rise slightly in moving from UNIX to PCs
- 4. Improve mission planning software acquisition, support, and sustainment of current systems until newer software exceeds current deployed capabilities**
  - Closely tracking migration of current software capabilities to JMPS
  - Closely monitoring potential external changes and hardware maintainability of TAMPS system
  - Continuing to support planned upgrades to N-PFPS
- 5. Enhance Rapid Prototyping Cell (RPC) / User Developed Application (UDA) concept visibility and support**





# January 2002 NavMPS OAG Priorities

6. **Improve sensor performance prediction tools that account for environmental effects and seamlessly integrate into current and future mission planning and rehearsal systems**
  - **This is a JMPS Common Capability (CC) scheduled for FY04-06**
7. **Develop execution simulation tools with route rehearsal that effectively integrate the mission planning system and existing Navy and Marine Corps simulation development to include debriefing capability**
  - **JC1 will have limited 3-D mission preview capability but will maintain interoperability with existing major mission rehearsal systems**
  - **Full mission rehearsal/replay capability is CC scheduled for FY04-06**
8. **Expand NavMPS training to include structured exposure to mission planning systems throughout flight training and formalized training syllabi established in the FRS with continuation training**



# January 2002 NavMPS OAG Priorities

## 9. Continue and expand mission planning systems support personnel (Shipriders) and establish a squadron level non-aircrew IT/systems support billet

- Shiprider funding at current level picked up by N61 in FY03 and supported by POM-04 in FY
- Not expected to be able to increase to support USMC
- Working to establish a cooperative agreement with USAF SSF to provide joint support for JMPS
- Sponsor and NavMPS have begun plans to establish SA/DBA billet

## 10. Administrative tools for data collection/fusion/dissemination to include mission planning system connectivity aboard all air-capable ships

- RPC working on several administrative tools
- JMPS providing automated briefing tools
- JMPS will include Web Access and increased accessibility to imagery and weather information
- JMPS IOC version will include limited collaboration capability



# Summary

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## ***Top NavMPS Focus***

- Complete development of JMPS Combat 1 to replace outdated and unaffordable TAMPS Unix-Based System
- Maintain reliable mission planning support to the Fleet during JMPS transition, through an aggressive customer-oriented fleet support effort
- Begin migration of all Non-TAMPS Naval aircraft platforms to the multi-service JMPS, through the development of warfare area common capabilities



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